

#2



OIPE

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/007,489B

DATE: 06/14/2002

TIME: 14:49:25

Input Set : A:\EP.txt

Output Set: N:\CRF3\06142002\J007489B.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Frayne, Elizabeth Gay

7 (ii) TITLE OF INVENTION: Microbial Production of

8 Nuclease Resistant DNA, RNA, and Oligo Mixtures

10 (iii) NUMBER OF SEQUENCES: 2

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: Frayne, Elizabeth Gay

14 (B) STREET: 2027 Galvin Ln. #1

15 (C) CITY: Diamond Bar

16 (D) STATE: California

17 (E) COUNTRY: USA

18 (F) ZIP: 91765

19 (v) COMPUTER READABLE FORM:

20 (A) MEDIUM TYPE: Diskette, 3.50 inch 1.4 MB

21 (B) COMPUTER: IBM

22 (C) OPERATING SYSTEM: Windows XP

23 (D) SOFTWARE: Microsoft Word

24 (vi) CURRENT APPLICATION DATA:

C--> 25 (A) APPLICATION NUMBER: US/10/007,489B

C--> 26 (B) FILING DATE: 05-Dec-2001

27 (C) CLASSIFICATION:

28 (vii) PRIOR APPLICATION DATA:

29 (A) APPLICATION NUMBER: US 60/100,231

30 (B) FILING DATE: 14-SEP-1998

31 (A) APPLICATION NUMBER: US 60/152,371

32 (B) FILING DATE: 07-SEP-1999

33 (ix) TELECOMMUNICATION INFORMATION:

34 (A) TELEPHONE: (909)861-2111/860-7415

35 (2) INFORMATION FOR SEQ ID NO: 1:

36 (i) SEQUENCE CHARACTERISTICS:

37 (A) LENGTH: 22 base pairs

38 (B) TYPE: nucleic acid

39 (C) STRANDEDNESS: single

40 (D) TOPOLOGY: linear

41 (ii) MOLECULE TYPE: genomic DNA

42 (iii) HYPOTHETICAL: no

43 (iv) ANTI-SENSE: no

44 (vi) ORIGINAL SOURCE:

45 (A) ORGANISM: Saccharomyces cerevisiae

46 (B) STRAIN: YFLO39C genomic clone

47 (x) PUBLICATION INFORMATION:

48 (A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T.,

RAW SEQUENCE LISTING

DATE: 06/14/2002

PATENT APPLICATION: US/10/007,489B

TIME: 14:49:25

Input Set : A:\EP.txt

Output Set: N:\CRF3\06142002\J007489B.raw

49 Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E.,
 50 Yokoyama K., Yamazaki M., Tashiro H., Eki T.
 51 (B) TITLE: Analysis of the nucleotide sequence of chromosome VI from
 52 *Saccharomyces cerevisiae*.
 53 (C) JOURNAL: Nature Genet.
 54 (D) VOLUME: 10
 55 (F) PAGES: 261-268
 56 (G) DATE: 1995
 57 (K) RELEVANT RESIDUES IN SEQ ID NO: 1: 10-31
 58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 59 GAG GTT GCT GCT TTG GTT ATT G 22
 60 (2) INFORMATION FOR SEQ ID NO: 2:
 61 (i) SEQUENCE CHARACTERISTICS:
 62 (A) LENGTH: 22 base pairs
 63 (B) TYPE: nucleic acid
 64 (C) STRANDEDNESS: single
 65 (D) TOPOLOGY: linear
 66 (ii) MOLECULE TYPE: genomic DNA
 67 (iii) HYPOTHETICAL: no
 68 (iv) ANTI-SENSE: yes
 69 (vi) ORIGINAL SOURCE:
 70 (A) ORGANISM: *Saccharomyces cerevisiae*
 71 (B) STRAIN: YFLO39C genomic clone
 72 (x) PUBLICATION INFORMATION:
 73 (A) AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T.,
 74 Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E.,
 75 Yokoyama K., Yamazaki M., Tashiro H., Eki T.
 76 (B) TITLE: Analysis of the nucleotide sequence of
 77 chromosome VI from *Saccharomyces cerevisiae*.
 78 (C) JOURNAL: Nature Genet.
 79 (D) VOLUME: 10
 80 (F) PAGES: 261-268
 81 (G) DATE: 1995
 82 (K) RELEVANT RESIDUES IN SEQ ID NO: 2: 1097-1118
 83 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
 84 TT GTG GTG AAC GAT AGA TGG AC 22

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/007,489B

DATE: 06/14/2002

TIME: 14:49:26

Input Set : A:\EP.txt

Output Set: N:\CRF3\06142002\J007489B.raw

L:25 M:220 C: Keyword misspelled or invalid format, -{(A) APPLICATION NUMBER:]

L:26 M:220 C: Keyword misspelled or invalid format, -{(B) FILING DATE:]

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: Frayne, Elizabeth Gay

(ii) TITLE OF INVENTION: Microbial Production of Nuclease Resistant DNA, RNA, and

Oligo Mixtures

(iii) NUMBER OF SEQUENCES: 2

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Frayne, Elizabeth Gay

(B) STREET: 2027 Galvin Ln. #1

(C) CITY: Diamond Bar

(D) STATE: California

(E) COUNTRY: USA

(F) ZIP: 91765

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Diskette, 3.50 inch 1.4 MB

(B) COMPUTER: IBM

(C) OPERATING SYSTEM: Windows 98

(D) SOFTWARE: Microsoft Word

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER: US 10/007,489

(B) FILING DATE: 12/05/2001

(C) CLASSIFICATION: 435/41, 435/71, 435/91, 435/131, 435/154, 435/172, 435/183; 935, 536/27

(vii) PRIOR APPLICATION DATA:

(A) APPLICATION (PROVISIONAL) NUMBER: US 60/100,231

(B) FILING DATE: 9/14/98

(C) APPLICATION (PROVISIONAL) NUMBER: 60/152,371

(D) FILING DATE: 9/07/99

(viii) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (909)861-2111/860-7415

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 22 bp

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE:

(A) DESCRIPTION: genomic DNA

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(v) ORIGINAL SOURCE:

(A) ORGANISM: Saccharomyces cerevisiae

(B) STRAIN: YFLO39C genomic clone

(vi) PUBLICATION INFORMATION:

(A) AUTHORS: MURAKAMI Y., NAITOU M., HAGIWARA H., SHIBATA T., OZAWA M., SASANUMA S.I., SASANUMA M., TSUCHIYA Y., SOEDA E., YOKOYAMA K., YAMAZAKI M., TASHIRO H., EKI T.

(B) TITLE: Analysis of the nucleotide sequence of chromosome VI from Saccharomyces cerevisiae.

(C) JOURNAL: Nature Genet.

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MAR 27 2002

TECH CENTER 1600/2900

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MAR 27 2002

TECH CENTER 1600/2900

(D) VOLUME: 10
 (C) PAGES: 261-268
 (D) DATE:1995
 (E) RELEVANT RESIDUES IN SEQ ID NO: 1: 10-31
 (vii) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
 GAG GTT GCT GCT TTG GTT ATT G
 (3) INFORMATION FOR SEQ ID NO: 2:
 (i)SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 22 bp
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear
 (ii) MOLECULE TYPE:
 (A)DESCRIPTION: genomic DNA
 (iii) HYPOTHETICAL: no
 (iv) ANTI-SENSE: yes
 (v) ORIGINAL SOURCE:
 (A) ORGANSIM: Saccharomyces cerevisiae
 (B) STRAIN: YFLO39C genomic clone
 (vi) PUBLICATION INFORMATION:
 (A) AUTHORS: AUTHORS: Murakami Y., Naitou M., Hagiwara H., Shibata T.,
 Ozawa M., Sasanuma S.I., Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K.,
 Yamazaki M., Tashiro H., Eki T.
 (B) TITLE: Analysis of the nucleotide sequence of chromosome VI from
 Saccharomyces cerevisiae.
 (C) JOURNAL: Nature Genet.
 (D) VOLUME: 10
 (B) PAGES: 261-268
 (C) DATE:1995
 (D) RELEVANT RESIDUES IN SEQ ID NO: 2: 1097-1118
 (vii) SEQUENCE DESCRIPTION: SEQ ID NO:2:
 TT GTG GTG AAC GAT AGA TGG AC

10/007,489

pg 1-3

SEQUENCE LISTING

Does Not Comply
Corrected Diskette Needed

(1) GENERAL INFORMATION

(i) APPLICANT: Elizabeth Frayne

~~(ii) APPLICANT ADDRESS: 2027 Galvin Ln. #1~~

delete

(ii) ~~(iii)~~ TITLE OF INVENTION: Microbial Production of
Nuclease Resistant DNA, RNA, and Oligo Mixtures

(iii) ~~(iv)~~ NUMBER OF SEQUENCES: 2

(iv) ~~(v)~~ CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Frayne Consultants
- (B) STREET: 1249 S. Diamond Bar Blvd. #125
- (C) CITY: Diamond Bar
- (D) STATE: California
- (E) COUNTRY: USA
- (F) ZIP: 91765

(v) ~~(iv)~~ COMPUTER READABLE FORM

- (A) MEDIUM TYPE: Diskette, 3.50 inch 1.2 KB
- (B) COMPUTER: IBM
- (C) OPERATING SYSTEM: Windows 98
- (D) SOFTWARE: Microsoft Word

(vi) ~~(vii)~~ CURRENT APPLICATION DATA

- (A) APPLICATION NUMBER:
- (B) FILING DATE:
- ~~(C) CLASSIFICATION: 435/41, 435/71, 435/91,
435/131, 435/154, 435/172, 435/183, 935,
536/27~~

delete

(vii) ~~(viii)~~ PRIOR APPLICATION DATA:

- (A) APPLICATION ~~(PROVISIONAL)~~ NUMBERS: *current* (A) APPLICATION NUMBER.
~~unknown, 60/152, 371, 60/100, 231~~
- (B) FILING DATE: *current unknown, 9/07/99*
9/14/99
- (A) APPLICATION NUMBER: *14-SEP-1999*
- (B) FILING DATE: *14-SEP-1999*

move up next to

*07-SEP-1999
use this
date
format*

(ix) TELECOMMUNICATION INFORMATION: *Colon*

- (A) TELEPHONE: (909) 861-2111/860-7415
- ~~(B) EMAIL: egfrayne@cs.com~~

*list each prior
serial number
separately*

(2) INFORMATION FOR SEQ ID NO 1:

(i) SEQUENCE CHARACTERISTICS: *insert colon
after each
heading*

- (A) LENGTH: 22 bp

10/007,489 2

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE:

(A) DESCRIPTION: oligonucleotide

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

(vi) ~~+~~ ORIGINAL SOURCE: ORGANISM

- (A) ~~ORGANISM~~ Saccharomyces cerevisiae
- (B) STRAIN: YFLO39C genomic clone

Per 1.823
of sequence
Rules list
each
author
on a
separate
line

(X) ~~+~~ PUBLICATION INFORMATION:

(A) ~~AUTHORS:~~ ~~AUTHORS:~~ Murakami Y., Naitou M.,
Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I.,
Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K.,
Yamazaki M., Tashiro H., Eki T.

(B) TITLE: Analysis of the nucleotide sequence of
chromosome VI from Saccharomyces cerevisiae.

(C) JOURNAL: Nature Genet.

(D) VOLUME: 10

(F) ~~+~~ PAGES: 261-268

(G) ~~+~~ DATE: 1995

(K) ~~+~~ RELEVANT RESIDUES IN SEQ ID NO 1: 10-31

(maximum
of first
ten authors)

(xi) ~~+~~ SEQUENCE DESCRIPTION: SEQ ID NO 1:

GAGGTTGCTG CTTTGTTAT TG

(2) ~~+~~ INFORMATION FOR SEQ ID NO 2:

(i) SEQUENCE CHARACTERISTICS: ←

- (A) ~~+~~ LENGTH: 22 bp
- (B) ~~+~~ TYPE: nucleic acid
- (C) ~~+~~ STRANDEDNESS: single
- (D) ~~+~~ TOPOLOGY: linear

(ii) MOLECULE TYPE:

(A) ~~+~~ DESCRIPTION: oligonucleotide

(iii) HYPOTHETICAL: no

(iv) ANTI-SENSE: no

22 SURNAME ~~common~~ OTHER NAME
↑ and/or
insert INITIALS

cumulative
base total at right
margin
of each
line

10/007,489 3

→(vi)

→ ORIGINAL SOURCE:

- (A) ~~(P)~~ ORGANSIM: Saccharomyces cerevisiae *misspelled*
(B) ~~(G)~~ STRAIN: YFLO39C genomic clone

fix format

(X) ~~(vi)~~ PUBLICATION INFORMATION:

(A) ~~AUTHORS:~~ AUTHORS: Murakami Y., Naitou M.,
Hagiwara H., Shibata T., Ozawa M., Sasanuma S.I.,
Sasanuma M., Tsuchiya Y., Soeda E., Yokoyama K.,
Yamazaki M., Tashiro H., Eki T.

as

Indicated

on

page

2

(B) TITLE: Analysis of the nucleotide sequence of
chromosome VI from Saccharomyces cerevisiae.

(C) JOURNAL: Nature Genet.

(D) VOLUME: 10

(F) ~~(H)~~ PAGES: 261-268

(G) ~~(I)~~ DATE: 1995

(K) ~~(J)~~ RELEVANT RESIDUES IN SEQ ID NO 1: 1097-1118 *do you mean 2?*

(X) ~~(vii)~~ SEQUENCE DESCRIPTION: SEQ ID NO 2:

TTGTGGTGAA CGATAGATGG AC

22 ← insert

1) Please consult sequence

Rule for valid format.

2) See sample Sequence Listing (attached)

3) FYI: all U.S. applications filed on or
after July 1, 1998, and which cannot
claim a prior invention filed before
July 1, 1998, need to be in new
Sequence Rule format.